

MODIS IOT Weekly Report

Mission Operations Days: 2001/019 to 2001/026

January 26, 2001 20:00:00 GMT to February 02, 2001 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

Blackbody	A Off; B On	Nominal
Calibration Electronics	A Off; B On	Nominal
Control Processor	A Off; B On	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A Off; B On	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 Off; 3 & 4 On	Nominal
Format Processor	A Off; B On	Nominal
Power Supply: 1	Off	Nominal
2	On	Nominal
PV FPAs: VIS	A Off; B On	Nominal
NIR	A Off; B On	Nominal
SMIR	A Off; B On	Nominal
LWIR	A Off; B On	Nominal
PC FPA: LWIR	A Off; B On	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A Off; B On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A Off; B On	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	68	Nominal

This Week's Completed MODIS Activities:

Friday, January 26, 2001

None

Saturday, January 27, 2001
None

Sunday, January 28, 2001
None

Monday, January 29, 2001
None

Tuesday, January 30, 2001
None

Wednesday, January 31, 2001
2001/031 20:49:46 OA-16: SDSM SCREENED
2001/031 22:28:39 OA-15: SDSM OPEN

Thursday, February 01, 2001
None

Friday, February 02, 2001
None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, February 02, 2001
None

Saturday, February 03, 2001
None

Sunday, February 04, 2001
None

Monday, February 05, 2001
None

Tuesday, February 06, 2001

None

Wednesday, February 07, 2001

None

Thursday, February 08, 2001

2001/039 15:50:51 – 16:24:24 ATC OA-19: SRCA Full Radiometric

Friday, February 09, 2001

2001/040 14:52:39 – 15:44:18 ATC OA-22: SRCA Full Spectral (Part 1)

2001/040 16:48:22 – 17:23:07 ATC OA-22: SRCA Full Spectral (Part 2)

2001/040 18:10:24 – 19:01:40 ATC OA-22: SRCA Full Spectral (Part 3)

2001/040 20:04:25 – 20:42:23 ATC OA-22: SRCA Full Spectral (Part 4)

Maneuvers:

A drag makeup maneuver was performed by the FOT at 017/19:38:00 to 017/21:08:00.

The next MODIS Lunar Calibration Roll Maneuver is planned for 2001/043, February 12th

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 2000/304.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 2000/240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Temperature trends are correlating with the solar beta angle. This includes a steadying of the intermediate stage outgas temperature. This temperature is expected to increase again when the beta angle gets smaller.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 179.2 of 500 hours

SRCA 10W Lamp #2: 139.2 of 500 hours

SRCA 10W Lamp #3: 148.4 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.6 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1519 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements